Patent
Attorney Docket No. <u>1032326-000273</u>

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	**MAIL STOP APPEAL BRIEF**
Jean-Jacques Vandewalle et al.)	Group Art Unit: 2442
Application No.: 10/665,905)	Examiner: Jason Recek
Filed: September 15, 2003)	Confirmation No.: 7036
For: METHOD AND MEANS FOR) MANAGING COMMUNICATIONS) BETWEEN LOCAL AND REMOTE) OBJECTS IN AN OBJECT ORIENTED) CLIENT SERVER SYSTEM IN WHICH) A CLIENT APPLICATION INVOKES A LOCAL OBJECT AS A PROXY FOR A REMOTE ..	

RESPONSE TO NOTICE OF NON-COMPLIANT APPEAL BRIEF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is in reply to the Notification of Non-Compliant Appeal Brief dated August 10, 2010. This response is believed to resolve points 4 and 10 of the Notification. The independent claims are mapped to the original specification by page numbers and line numbers. The required clarity of the correction is accentuated by underlining the page and line numbering portion of the independent claim table.

As per checked item 10 of the Notification, Appellants understand that the entire brief is not required, and only the section that was found defective is submitted herein. Appellants submit that this Response to the Notification brings the Appeal Brief in compliance with the provisions of 37 C.F.R. §§41.37(c)(1) (vi) and (vii).

☒ A Charge ☐ $ 250 ☒ $ 510 to Deposit Account No. 08-2025 was already paid July 26, 2010

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 08-2025.

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V. Summary of Claimed Subject Matter

The claimed subject matter is directed to a method for managing information exchanges among communicating objects in an object-oriented client server system.

Pursuant to 37 C.F.R. §41.37(1)(c)(v), the subject matter of independent claims 1, 4 and 6 is cross-referenced to the specification and/or drawing figures in the following table. The following table is not to be construed as a representation that the portions of the disclosure identified below constitute the sole basis for support for the claimed subject matter.

Claim	Disclosure
1. A method for managing information exchanges among communicating objects in an object-oriented client server system, said system including first and second object-oriented virtual machines running on counterpart first and second computers in respective server and client roles, and a communication path connection between said computers, said server virtual machine having a run-time environment, the method comprising:	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; and Figs. 3C and 5
(a) generating a local object at the client machine based upon interface definition of a remote object resident at the server machine, said local object executable as a proxy to the remote object; said server machine residing in a smart device; and said client machine having access to the smart device via a smart device reader;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 501-515
(b) referencing the local object by an application executing at the client machine and causing the local object to marshal parameters;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the

	paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numeral 503
(c) sending a process level call request by direct method invocation to the run-time environment of the server machine;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 507 and 509
(d) responsive to receipt of said request by the server machine's run-time environment, said run-time environment causing the parameters in the request to become unmarshaled, said remote object to be executed, and the results of the execution to be marshaled;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 513 and 515
(e) sending a process level return to the client machine as a reply; and	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the

	paragraph beginning on page 12, line 30 and ending on page 13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 509 and 513
(f) responsive to said reply, unmarshaling the results from said reply by the local object at the client machine.	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page 13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 503 and 507
4. A method for managing information exchanges between an application executing at a object-oriented virtual machine operable as a client and a remote object resident at another object-oriented virtual machine operable as a server, said server machine having a run-time environment, said client and server having a communication path connection there-between, said communication path connection being operable under a process for originating and sending byte level messages therebetween, comprising:	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; and Figs. 3C and 5
(a) providing a local object resident at the client machine executable as a proxy stub to the remote object resident at the server machine and providing a description of the remote object to enable said run-time environment to also operate as a stub, said server machine residing in a smart device; and said client machine having access to the smart device via a smart device reader; wherein the local object is	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on

generated based upon interface definition of a remote object resident at the server machine;	page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 501-515
(b) responsive to a client application call to the local object, marshaling parameters and causing a process level call request to be sent to the run-time environment of the server machine, said sending of the request further including mapping said process level call request into counterpart byte string level messages and transmitting said messages to the server machine;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 503, 507 and 509
(c) responsive to receipt of said request messages by the server machine's run-time environment, mapping said messages into a process level call request, unmarshaling the parameters, invoking and executing the remote object, marshaling the results, forming a process level reply, mapping said reply into string byte messages, and transmitting said reply messages to the client machine; and	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 507, 509, 513 and 515
(d) responsive to the reply messages by the proxy at the client machine, mapping said reply messages into a process level reply, and unmarshaling the results.	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on

	page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 501 and 503
6. An article of manufacture comprising a machine readable memory having stored therein a plurality of processor executable control program steps for managing information exchanges among communicating objects in an object-oriented client server system, said system including first and second object-oriented virtual machines running on counterpart first and second computers in respective server and client roles, and a communication path connection between said computers, said server virtual machine having a run-time environment, said control program steps including:	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; and Figs. 3C and 5
(a) a control program step for generating a local object at the client machine executable as a proxy to a remote object resident at the server machine, said server machine residing in a smart device; and said client machine having access to the smart device via a smart device reader; wherein the local object is generated based upon interface definition of a remote object resident at the server machine;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 501-515
(b) a control program step for referencing the local object by an application executing at the client machine and causing the local object to marshal parameters;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page

	14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 503, 507 and 509
(c) a control program step for transmitting a process level call request to the server machine's run-time environment;	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 507 and 509
(d) a control program step responsive to receipt of said request by the server machine's run-time environment, to cause said run-time environment to unmarshal the parameters in the request, execute said remote object, marshal the results of the execution, and send a process level return to the client machine; and	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the paragraph beginning on page 14, line 29 and ending on page 15, line 5; and Fig. 5, reference numerals 513 and 515
(e) a control program step responsive to said return to cause said local object to unmarshal the results from said reply.	The paragraph beginning on page 6, line 18 and ending on page 7, line 2; the paragraph beginning on page 12, line 30 and ending on page13, line 11; the

	<u>paragraph beginning on page</u> <u>14, line 29 and ending on</u> <u>page 15, line 5</u>; and Fig. 5, reference numeral 503

In the event that there are any remaining questions concerning the July 26, 2010 Appeal Brief, or the application in general, the Examiner is respectfully requested to telephone the undersigned so that prosecution of present application may be expedited.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

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